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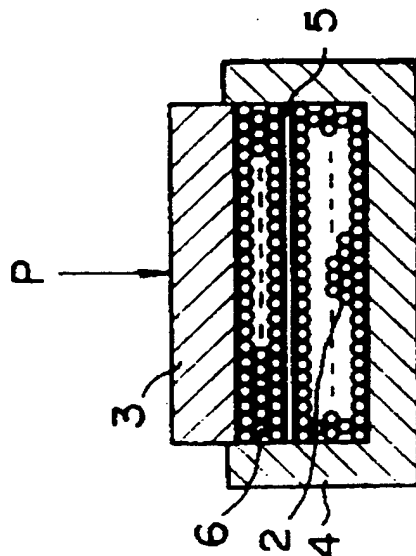
APPLICATION DATE : 11-03-83
APPLICATION NUMBER : 58039144

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TITLE : PRODUCTION OF OPTICAL FIBER
PLATE



ABSTRACT : PURPOSE: To make pressure uniform on a border between a press plate and optical fibers and to form an optical fiber plate reducing at its image bent by pressing and melting a layer consisting of globular materials with heat.

CONSTITUTION: The inside of a frame body 4 is most tightly charged with optical fibers 2 by laminating the fibers 2, the upper part of the optical fibers 2 is most tightly packed with globular material 6 having soft adhering temperature slightly lower than a temperature (soft melting temperature) properly deforming and melting the fibers 2 with proper pressure through a peeling-off foil 5 and the press plate 3 is put on the material 6. The part prepared by said procedure is heated in a vacuum heating furnace up to the soft melting temperature of the material 6 and the plate 3 is pressed with pressure P. Since the layer of the material 6 is thermally deformed gradually from the center part of the frame body 4 to the periphery, uniform pressure is applied to the whole layer of the fibers 2. At that time or after the time, the fibers 2 also are heated up to the soft melting temperature press-contacting and deforming the fibers 2 with heat, so that thermal deformation is uniform. Therefore, the optical fiber plate block is improved at its quality by reducing image bending distortion.

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